

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/25/98
Date Received: 11/23/98
Project: Metro KC Grab, PO# M77750
Date Samples Extracted: 11/23/98
Date Extracts Analyzed: 11/23/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M77750	0.92	0.57	1.0	0.09
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 811097-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.38	0.35	8	0-20
Copper	mg/L (ppm)	0.34	0.31	9	0-20
Nickel	mg/L (ppm)	0.39	0.38	3	0-20
Zinc	mg/L (ppm)	0.08	0.07	13	0-20

Laboratory Code: 811097-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.38	90	81	80-120	11
Copper	mg/L (ppm)	5	0.34	91	80	80-120	12
Nickel	mg/L (ppm)	10	0.39	89	82	80-120	8
Zinc	mg/L (ppm)	5	0.08	94	86	80-120	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	102	100	80-120	2
Copper	mg/L (ppm)	5	103	103	80-120	0
Nickel	mg/L (ppm)	10	102	100	80-120	2
Zinc	mg/L (ppm)	5	102	101	80-120	1

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Send Report To:

SITE NO.

PROJECT NAME

PURCHASE ORDER #

SAMPLERS (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

SIGNATURE

COMPANY

Date _____

Time

Received by:

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 25, 1998

DUPLICATE COPY

INVOICE #98ACU1125-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro KC Grab, PO# M77750: Results of testing requested by
Gerry Thompson for material submitted on November 23, 1998.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$65 per sample	\$ 65.00
100% Rush Surcharge 24 hr Turnaround	<u>65.00</u>
Amount Due	\$ 130.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 25, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 23, 1998 from your Metro KC Grab, PO# M77750 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU1125R.DOC